

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: TERNA GIBBS Examiner #: 79523 Date: 5/30/02
 Art Unit: 1635 Phone Number 306-3221 Serial Number: 09708786
 Mail Box and Bldg/Room Location: Rm #12A12 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need. *MEJ*

 Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: _____

Inventors (please provide full names): _____

Earliest Priority Filing Date: _____

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

Please
Search

SEQ ID#1

NO EST's please!

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Searcher: William Lally

Searcher Phone #: 308-4501

Searcher Location: Printed Lib

Date Searcher Picked Up: 5/21/02

Date Completed: 6/3/02

Searcher Prep & Review Time: _____

Clerical Prep Time: 1 hr

Online Time: 3 min

Type of Search

NA Sequence (#) 1

AA Sequence (#) _____

Structure (#) _____

Bibliographic _____

Litigation _____

Fulltext _____

Patent Family _____

Other _____

Vendors and cost where applicable

STN _____

Dialog _____

Questel/Orbit _____

Dr. Link _____

Lexis/Nexis _____

Sequence Systems AB5501

WWW/Internet _____

Other (specify) _____


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Best Local Similarity 90.0%; Pred. No. 2, 2;
Matches 18; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

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Db        1          TGACACCTGTTCTCACTCAC 20

RESULT 2
LOCUS   HSA276888/c              364 bp    mRNA     linear     PRI 30-MAY-2001
DEFINITION Homo sapiens non-productive mRNA for p53-binding protein, alternatively spliced variant D52 (MDM2 gene).
ACCESSION AJ276888
VERSION   AJ276888.1 GI:7327962
KEYWORDS alternative splicing; DS2; mdm2 gene; p53-binding.
ORGANISM human.
REFERENCE Homo sapiens
AUTHORS Eukariyota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
        Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
TITLE     1 (bases 1 to 364)
        Bartel,F., Meyer,A., Wurl,P., Kappler,M., Bache,M.,
        Lautenschlager,C., Grunbaum,U., Schmidt,H. and Taubert,H.
        Amplification of the MDM2 mRNA, is associated with prognosis in soft tissue
        variants of MDM2 mRNA.
JOURNAL   Sarcoma
MEDLINE   Int. J. Cancer 95 (3), 168-175 (2001)
REFERENCE 21203670
AUTHORS   2 (bases 1 to 364)
        Bartel,F.
TITLE     Direct Submission
JOURNAL   Submitted (22-MAR-2000) Bartel F., Institute for Pathology,
        University of Halle, Faculty of Medicine, Magdeburger St. 14, 06097
        Halle, GERMANY
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Matches 18; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

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Db        249        TGACACCTGTTCTCACTCAC 230

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LOCUS   AF385323/c              646 bp    mRNA     linear     PRI 11-OCT-2001
DEFINITION Homo sapiens MDM2 variant FB26 (MDM2) mRNA, complete cds,
ACCESSION AF385323
VERSION   AF385323.1 GI:16033442
KEYWORDS

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NOT APPL

SOURCE human.
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniota; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 REFERENCE 1 (bases 1 to 646)
 AUTHORS Bartel, F., Taylor, A.C., Taubert, H. and Bartel, F.L.C.
 TITLE Novel mdm2 splice variants identified in human rhabdomyosarcoma tumors and cell lines
 JOURNAL Unpublished
 REFERENCE 2 (bases 1 to 646)
 AUTHORS Bartel, F., Taylor, A.C., Taubert, H. and Bartel, F.L.C.
 TITLE Direct Submission
 JOURNAL Submitted (24-MAY-2001) Molecular Pharmacology, St. Jude Children's Research Hospital, 332 N. Lauderdale, Memphis, TN 38105, USA
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 Best Local Similarity 90.0%; Pred. No. 2; Index 0; Gaps 0;
 Matches 18; Conservative
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 Db 383 TGACACCTGTCTCAGCTCAC 364
 RESULT 4
 LOCUS A44505 681 bp DNA linear PAT 07-MAR-2001
 DEFINITION Sequence 5 from Patent WO9514233.
 A44505
 A44505
 A44505.1 GI:2299323
 ACCESSION
 VERSION
 KEYWORDS
 SOURCE
 ORGANISM
 unclassified.
 unclassified.
 unclassified.
 1 (bases 1 to 681)
 REFERENCE 1 (bases 1 to 681)
 AUTHORS Zentgraf, H., Klein, R., Frey, M. and Zentgraf, H.
 TITLE METHOD OF IDENTIFYING HDM-2-SPECIFIC BINDING PARTNERS
 JOURNAL Patent: WO 9514233-A 5 26-MAY-1995;
 DEUTSCHES KREBSFORSCH (DE)
 COMMENT
 DEUTSCHES KREBSFORSCH (DE)
 Patent: WO 9514233-A 5 26-MAY-1995;
 Other Publication DE 439533 950614
 Other Publication DE 4345249 950527
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 Matches 18; Conservative 2; Mismatches-

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 Db 212 TGACACCTGTCTCCTCAG 193

RESULT 5
 LOCUS A61763 729 bp DNA linear PAT 09-MAR-1998
 DEFINITION Sequence 3 from Patent WO9711367.
 ACCESSION A61763
 VERSION A61763.1 GI:3715951
 KEYWORDS
 SOURCE unidentified.
 ORGANISM unidentified.

REFERENCE 1 (bases 1 to 729)
 AUTHORS Chene, P. and Hochkeppel, H.
 TITLE ASSAY FOR IDENTIFYING INHIBITORS OF THE INTERACTION BETWEEN
 JOURNAL PROTEINS P53 AND DM2
 PATENT: WO 9711367-A 3 27-MAR-1997;
 CIBA GEIGY AG (CH)

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 1..729 Location/Qualifiers
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 /db_xref="taxon:32644"
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 /protein_id="CAA03593.1"
 /db_xref="GI:3715952"
 /translation="MCNTNMSVPTDGAVTTSQIPASQETLVKPKLLKLSVGAO
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 Best Local Similarity 90.0%; Pred. No. 2;
 Matches 18; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 ugacacctgttctcacucac 20
 Db 466 TGACACCTGTCTCCTCAG 447

RESULT 6
 LOCUS A44504 852 bp DNA linear PAT 07-MAR-1997
 DEFINITION Sequence 4 from Patent WO9514233.
 ACCESSION A44504
 VERSION A44504.1 GI:2299322
 KEYWORDS
 SOURCE unidentified.
 ORGANISM unidentified.

REFERENCE 1 (bases 1 to 852)
 AUTHORS Zentgraf, H., Klein, R., Frey, M. and Martens, R.
 TITLE METHOD OF IDENTIFYING HDM-2-SPECIFIC ANTIBODIES
 JOURNAL Patent: WO 9514233-A 4 26-MAY-1995;
 DEUTSCHES KREBSFORSCH (DE)
 COMMENT Other publication DE 4345249 950524.
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 1..852 Location/Qualifiers
 /organism="unidentified"
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BASE COUNT 271 a 145 c 199 g 237 t
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 Matches 18; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 ugacacctgttctcacucac 20
 Db 383 TGACACCTGTCTCCTCAG 364

RESULT 7
 LOCUS AF385322/C 897 bp
 DEFINITION Homo sapiens MDM2 variant FB25 (MDM2).
 ACCESSION AF385322
 VERSION AF385322.1 GI:16033439
 KEYWORDS
 SOURCE human.
 ORGANISM Homo sapiens

REFERENCE 1 (bases 1 to 897)
 AUTHORS Bartel, F., Taylor, A.C., Taubert, H.
 TITLE Novel mdm2 splice variants identified in
 JOURNAL tumors and cell lines
 REFERENCE 2 (bases 1 to 897)
 AUTHORS Bartel, F., Taylor, A.C., Taubert, H.
 TITLE Direct Submission
 JOURNAL Submitted (24-MAY-2001) Molecular
 Research Hospital, 332 N. Laurel St.,
 Location/Qualifiers
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BASE COUNT 306 a 173 c 195 g 237 t
 ORIGIN

Query Match 100.0%; Score 20; DB 6; Length 897;
 Best Local Similarity 90.0%; Pred. No. 2;
 Matches 18; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 ugacacctgttctcacucac 20
 Db 199 TGACACCTGTCTCCTCAG 180

RESULT 8
 LOCUS AF385325/C 1057 bp
 DEFINITION Homo sapiens MDM2 variant FB29 (MDM2).
 ACCESSION AF385325
 VERSION AF385325.1 GI:16033447
 KEYWORDS
 SOURCE human.
 ORGANISM Homo sapiens

Eukaryota; Metazoa; Chordata; Craniota; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

RESULT 15

AR028963/c

LOCUS

DEFINITION

ACCESSION

VERSION

KEYWORDS

SOURCE

ORGANISM

REFERENCE

AUTHORS

TITLE

JOURNAL

FEATURES

source

BASE COUNT

ORIGIN

AR028963 2372 bp DNA linear PAT 29-SEP-1999
Sequence 2 from patent US 5858976.

AR028963
AR028963.1 GI:5940936

Unknown.

Unknown.

Unclassified.

1 (bases 1 to 2372)

Burrell, M., Hill, D.E., Kinzler, K.W. and Vogelstein, B.
Methods for inhibiting interaction of human KDM2 and p53

Patent: US 5858976-A 2 12-JAN-1999;
Location/Qualifiers

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698 a 491 c 541 g 642 t

Query Match 100.0%; Score 20; DB 6; Length 2372;

Best Local Similarity 90.0%; Pred. No. 1.9;

Matches 18; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

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Db 694 TGACACCTGTTCACCTCAC 675

Search completed: May 31, 2002, 22:43:53
Job time: 5934 sec

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OM nucleic - nucleic search, using sw model

Run on: May 31, 2002, 21:34:07 ; Search time 45.75 Seconds
(without alignments)
107.381 Million cell updates/sec

Title: US-09-708-786-1

Perfect score: 20

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Gapop 10.0 , Gapext 1.0

Searched: 383533 seqs, 122816752 residues

Total number of hits satisfying chosen parameters: 767066

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Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
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Listing first 45 summaries

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SUMMARIES

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score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

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ALIGNMENTS

RESULT 1
US-09-073-567-14/c
Sequence 14, Application US/09073567
Patent No. 6013786
GENERAL INFORMATION:
APPLICANT: Jiaodong Chen
APPLICANT: Ruitan Zhang
TITLE OF INVENTION: MDN-SPECIFIC ANTISENSE
NUMBER OF SEQUENCES: 49
CORRESPONDENCE ADDRESS:
ADDRESSEE: McDonnell Boehnen Hulbert
STREET: 300 South Wacker Drive, 32nd
City: Chicago
STATE: IL
COUNTRY: United States of America
ZIP: 60606
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 97
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/073,567
FILING DATE:
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Greenfield, Michael S.
REGISTRATION NUMBER: 37,147
REFERENCE/DOCKET NUMBER: 98, 057-A
TELECOMMUNICATION INFORMATION:
TELEPHONE: (312) 913-0001
TELEFAX: (312) 913-0002
INFORMATION FOR SEQ ID NO: 14:
SEQUENCE CHARACTERISTICS:
LENGTH: 20 base pairs
TYPE: nucleic acid
STRANDEDNESS: both
TOPOLOGY: linear
MOLECULE TYPE: nucleic acid
HYDROLYTICAL: NO
ANTI-SENSE: NO
US-09-073-567-14

Query Match 100.0% Score 20:
Best Local Similarity 90.0% Pred. No. 1
Matches 18; Conservative 2; Mismatch 0

Filed May 6 08
Issued Jun 11 00

Db 20 TGACACCTGTCTCCTCAGC 1

RESULT 2

US-09-073-567-36
Sequence 36, Application US/09073567

Patent No. 6013786

GENERAL INFORMATION:

APPLICANT: Jiaodong Chen

APPLICANT: Sudhir Agrawal

APPLICANT: Ruiwen Zhang

TITLE OF INVENTION: MDM2-SPECIFIC ANTISENSE OLIGONUCLEOTIDES

NUMBER OF SEQUENCES: 49

CORRESPONDENCE ADDRESS:

ADDRESSEE: McDonnell Boehnen Hulbert & Berghoff

STREET: 300 South Wacker Drive, 32nd Floor

CITY: Chicago

STATE: IL

COUNTRY: United States of America

ZIP: 60606

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Microsoft Word 97

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/073,567

FILING DATE:

CLASSIFICATION:

ATTORNEY/AGENT INFORMATION:

NAME: Greenfield, Michael S.

REGISTRATION NUMBER: 37,147

REFERENCE/DOCKET NUMBER: 98,057-A

TELECOMMUNICATION INFORMATION:

TELEPHONE: (312) 913-0001

TELEFAX: (312) 913-0002

INFORMATION FOR SEQ ID NO: 36:

SEQUENCE CHARACTERISTICS:

LENGTH: 20 base pairs

TYPE: nucleic acid

STRANDEDNESS: both

TOPOLOGY: linear

MOLECULE TYPE: nucleic acid

HYPOTHETICAL: NO

ANTI-SENSE: YES

US-09-073-567-36

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Best Local Similarity 90.0%; Pred. No. 0.14;
Matches 18; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

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Db 1 TGACACCTGTCTCCTCAGC 20

RESULT 3

US-09-073-567-47

Sequence 47, Application US/09073567

Patent No. 6013786

GENERAL INFORMATION:

APPLICANT: Jiaodong Chen

APPLICANT: Sudhir Agrawal

APPLICANT: Ruiwen Zhang

TITLE OF INVENTION: MDM2-SPECIFIC ANTISENSE OLIGONUCLEOTIDES

NUMBER OF SEQUENCES: 49

CORRESPONDENCE ADDRESS:

ADDRESSEE: McDonnell Boehnen Hulbert & Berghoff

STREET: 300 South Wacker Drive, 32nd Floor

CITY: Chicago

STATE: IL

US-09-073-567-47

COUNTRY: United States of America

ZIP: 60606

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Microsoft Word 97

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/073,567

FILING DATE:

CLASSIFICATION:

ATTORNEY/AGENT INFORMATION:

NAME: Greenfield, Michael S.

REGISTRATION NUMBER: 37,147

REFERENCE/DOCKET NUMBER: 98,057-A

TELECOMMUNICATION INFORMATION:

TELEPHONE: (312) 913-0001

TELEFAX: (312) 913-0002

INFORMATION FOR SEQ ID NO: 47:

SEQUENCE CHARACTERISTICS:

LENGTH: 20 base pairs

TYPE: nucleic acid

STRANDEDNESS: both

TOPOLOGY: linear

MOLECULE TYPE: nucleic acid

HYPOTHETICAL: NO

ANTI-SENSE: YES

US-09-073-567-47

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Best Local Similarity 100.0%; Pred. No. 0;
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Db 1 USACACCTGTCTCCTCAGC 20

RESULT 4

US-09-073-567-49

Sequence 49, Application US/09073567

Patent No. 6013786

GENERAL INFORMATION:

APPLICANT: Jiaodong Chen

APPLICANT: Sudhir Agrawal

APPLICANT: Ruiwen Zhang

TITLE OF INVENTION: MDM2-SPECIFIC ANTISENSE OLIGONUCLEOTIDES

NUMBER OF SEQUENCES: 49

CORRESPONDENCE ADDRESS:

ADDRESSEE: McDonnell Boehnen Hulbert & Berghoff

STREET: 300 South Wacker Drive, 32nd Floor

CITY: Chicago

STATE: IL

COUNTRY: United States of America

ZIP: 60606

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Microsoft Word 97

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/073,567

FILING DATE:

CLASSIFICATION:

ATTORNEY/AGENT INFORMATION:

NAME: Greenfield, Michael S.

REGISTRATION NUMBER: 37,147

REFERENCE/DOCKET NUMBER: 98,057-A

TELECOMMUNICATION INFORMATION:

TELEPHONE: (312) 913-0001

TELEFAX: (312) 913-0002

INFORMATION FOR SEQ ID NO: 49:

US-09-073-567-49

SEQUENCE CHARACTERISTICS:
LENGTH: 73 base pairs
TYPE: nucleic acid
STRANDEDNESS: both
TOPOLOGY: linear
MOLECULE TYPE: nucleic acid
HYPOTHETICAL: NO
ANTI-SENSE: YES
US-09-073-567-49

Query Match 100.0%; Score 20; DB 3; Length 73;
Best Local Similarity 90.0%; Pred. No. 0.16;
Matches 18; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 ugacacctgtctcacac 20
DB 44 TGACACCTGTCTCACAC 63

RESULT 5
US-07-903-103-1/C
Sequence 1, Application US/07903103
Patent No. 5411860
GENERAL INFORMATION:
APPLICANT: VOGELSTEIN, BERT
APPLICANT: KINZLER, KENNETH
TITLE OF INVENTION: AMPLIFICATION OF HUMAN MDX2 GENE IN
TITLE OF INVENTION: HUMAN TUMORS
NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
ADDRESSEE: BANNER, BIRCH, MCKIE AND BECKETT
STREET: 1001 G ST., N.W.
CITY: WASHINGTON
STATE: D.C.
COUNTRY: USA
ZIP: 20001-4597
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/903,103
FILING DATE: 19920623
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/867,840
FILING DATE: 07-APR-1992
ATTORNEY/AGENT INFORMATION:
NAME: KAGAN, SARAH A.
REGISTRATION NUMBER: 32,141
REFERENCE/DOCKET NUMBER: 01107,40148
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-508-9100
TELEFAX: 202-508-9299
TELEX: 197430 BMB UT
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 2372 base pairs
TYPE: NUCLEIC ACID
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: CDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
ORIGINAL SOURCE:
ORGANISM: Homo sapiens
CELL LINE: CaCo-2
POSITION IN GENOME:
MAP POSITION: 12q12-14
FEATURE:
NAME/KEY: CDS

LOCATION: 312..1784
US-07-903-103-1

Query Match 100.0%; Score 20;
Best Local Similarity 90.0%; Pred. No. 0.16;
Matches 18; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 ugacacctgtctcacac 20
DB 694 TGACACCTGTCTCACAC 675

RESULT 6
US-08-044-619A-1/C
Sequence 1, Application US/08044619A
Patent No. 5420263
GENERAL INFORMATION:
APPLICANT: THE JOHNS HOPKINS UNIVERSITY
APPLICANT: 720 RUTLAND AVENUE, BALTIMORE, MD 21205
TITLE OF INVENTION: AMPLIFICATION OF HUMAN
TITLE OF INVENTION: HUMAN TUMORS
NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
ADDRESSEE: BANNER, BIRCH, MCKIE AND BECKETT
STREET: 1001 G ST., N.W.
CITY: WASHINGTON
STATE: D.C.
COUNTRY: USA
ZIP: 20001-4597
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/044,619A
FILING DATE: 07-APR-1993
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/903,103
FILING DATE: 23-JUN-1992
APPLICATION NUMBER: US 07/867,840
FILING DATE: 07-APR-1992
ATTORNEY/AGENT INFORMATION:
NAME: KAGAN, SARAH A.
REGISTRATION NUMBER: 32,141
REFERENCE/DOCKET NUMBER: 01107,40148
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-508-9100
TELEFAX: 202-508-9299
TELEX: 197430 BMB UT
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 2372 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: CDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
ORIGINAL SOURCE:
ORGANISM: Homo sapiens
CELL LINE: CaCo-2
POSITION IN GENOME:
MAP POSITION: 12q12-14
FEATURE:
NAME/KEY: CDS
LOCATION: 312..1784
US-08-044-619A-1

Query Match 100.0%; Score 20;

Best Local Similarity 90.0%; Pred. No. 0.24;
Matches 18; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

OY 1 ugacacctgttcacucac 20
:|||||
DB 694 TGACACCTGTCTCCTCCTC 675

RESULT 7
US-08-283-911-1/C

; Sequence 1, Application US/08283911

; Patent No. 5519118

; GENERAL INFORMATION:

; APPLICANT: VOGELSTEIN, BERT

; APPLICANT: KINZLER, KENNETH

; TITLE OF INVENTION: AMPLIFICATION OF HUMAN MDM2 GENE IN

; NUMBER OF SEQUENCES: 4

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: BANNER, BIRCH, MCKIE AND BECKETT

; STREET: 1001 G ST., N.W.

; CITY: WASHINGTON

; STATE: D.C.

; COUNTRY: USA

; ZIP: 20001-4597

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: Patentin Release #1.0, Version #1.25

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/283,911

; FILING DATE:

; CLASSIFICATION: 435

; PRIORITY APPLICATION DATA:

; APPLICATION NUMBER: US 07/903,103

; FILING DATE: 23-JUN-1992

; APPLICATION NUMBER: US 07/867,840

; FILING DATE: 07-APR-1992

; ATTORNEY/AGENT INFORMATION:

; NAME: KAGAN, SARAH A.

; REGISTRATION NUMBER: 32,141

; REFERENCE/DOCKET NUMBER: 01107,40148

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: 202-508-9100

; TELEFAX: 202-508-9299

; TELETYPE: 197430 BBMB UT

; INFORMATION FOR SEQ ID NO: 1:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 2372 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: double

; TOPOLOGY: linear

; MOLECULE TYPE: cDNA

; HYPOTHETICAL: NO

; ANTI-SENSE: NO

; ORIGINAL SOURCE:

; ORGANISM: Homo sapiens

; CELL LINE: Caco-2

; POSITION IN GENOME:

; MAP POSITION: 12q12-14

; FEATURE:

; NAME/KEY: CDS

; LOCATION: 312..1784

US-08-283-911-1

Query Match 100.0%; Score 20; DB 1; Length 2372;

Best Local Similarity 90.0%; Pred. No. 0.24;

Matches 18; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

OY 1 ugacacctgttcacucac 20
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DB 694 TGACACCTGTCTCCTCCTC 675

RESULT 8

US-08-245-500A-2/C

; Sequence 2, Application US/08245500A

; Patent No. 5550023

; GENERAL INFORMATION:

; APPLICANT: BURRELL, MARILEE

; APPLICANT: HILL, DAVID E.

; APPLICANT: KINZLER, KENNETH W.

; APPLICANT: VOGELSTEIN, BERT

; TITLE OF INVENTION: AMPLIFICATION OF HUMAN MDM2 GENE IN

; NUMBER OF SEQUENCES: 5

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: BANNER, BIRCH, MCKIE AND BECKETT

; STREET: 1001 G STREET, N.W.

; CITY: WASHINGTON

; STATE: D.C.

; COUNTRY: USA

; ZIP: 20001

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: Patentin Release #1.0, Version #1.25

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/245,500A

; FILING DATE: 07-APR-1993

; CLASSIFICATION: 435

; ATTORNEY/AGENT INFORMATION:

; NAME: KAGAN, SARAH A.

; REGISTRATION NUMBER: 32,141

; REFERENCE/DOCKET NUMBER: 01107,42798

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: 202-508-9100

; TELEFAX: 202-508-9299

; TELETYPE: 197430 BBMB UT

; INFORMATION FOR SEQ ID NO: 2:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 2372 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: double

; TOPOLOGY: linear

; MOLECULE TYPE: cDNA

; HYPOTHETICAL: NO

; ANTI-SENSE: NO

; ORIGINAL SOURCE:

; ORGANISM: Homo sapiens

; CELL LINE: Caco-2

; POSITION IN GENOME:

; MAP POSITION: 12q12-14

; FEATURE:

; NAME/KEY: CDS

; LOCATION: 312..1784

US-08-245-500A-2

Query Match 100.0%; Score 20; DB 1; Length 2372;

Best Local Similarity 90.0%; Pred. No. 0.24;

Matches 18; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

OY 1 ugacacctgttcacucac 20
:|||||

DB 694 TGACACCTGTCTCCTCCTC 675

RESULT 9

US-08-390-546-2/C

; Sequence 2, Application US/08390546

; Patent No. 5606044

; GENERAL INFORMATION:

APPLICANT: BURRELL, MARILEE
APPLICANT: HILL, DAVID E.
APPLICANT: KINZLER, KENNETH W.
APPLICANT: VOGELSTEIN, BERT
TITLE OF INVENTION: AMPLIFICATION OF HUMAN MDM2 GENE IN
NUMBER OF SEQUENCES: 5
CORRESPONDENCE ADDRESS:
ADDRESSEE: BANNER, BIRCH, MCKIE AND BECKETT
STREET: 1001 G STREET, N.W.
CITY: WASHINGTON
STATE: D.C.
COUNTRY: USA
ZIP: 20001
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/390,546
FILING DATE: 07-APR-1993
CLASSIFICATION: 536
ATTORNEY/AGENT INFORMATION:
NAME: KAGAN, SARAH A.
REGISTRATION NUMBER: 32,141
REFERENCE/DOCKET NUMBER: 01107,42798
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-508-9100
TELEFAX: 202-508-9299
TELEX: 197430 BBMB UT
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 2372 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
AMTI-SENSE: NO
ORIGINAL SOURCE:
ORGANISM: Homo sapiens
CELL LINE: CaCo-2
POSITION IN GENOME:
MAP POSITION: 12q12-14
FEATURE:
NAME/KEY: CDS
LOCATION: 312..1784
US-08-390-546-2

Query Match 100.0%; Score 20; DB 1; Length 2372;
Best Local Similarity 90.0%; Pred. No. 0.24;
Matches 18; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 ugacacctgtctcacacac 20
DB 694 TGACACCTGTCTCACAC 675

RESULT 10
US-08-390-479A-2/c
Sequence 2, Application US/08390479A
Patent No. 5618921
GENERAL INFORMATION:
APPLICANT: BURRELL, MARILEE
APPLICANT: HILL, DAVID E.
APPLICANT: KINZLER, KENNETH W.
APPLICANT: VOGELSTEIN, BERT
TITLE OF INVENTION: AMPLIFICATION OF HUMAN MDM2 GENE IN
NUMBER OF SEQUENCES: 5
CORRESPONDENCE ADDRESS:

ADDRESSEE: BANNER & WITCOFF, LTD.
STREET: 1001 G STREET, N.W.
CITY: WASHINGTON
STATE: D.C.
COUNTRY: USA
ZIP: 20001
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Ver
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/390,479A
FILING DATE: 02-FEB-1995
CLASSIFICATION: 530
ATTORNEY/AGENT INFORMATION:
NAME: KAGAN, SARAH A.
REGISTRATION NUMBER: 32,141
REFERENCE/DOCKET NUMBER: 01107,48992
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-508-9100
TELEFAX: 202-508-9299
TELEX: 197430 BBMB UT
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 2372 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
AMTI-SENSE: NO
ORIGINAL SOURCE:
ORGANISM: Homo sapiens
CELL LINE: CaCo-2
POSITION IN GENOME:
MAP POSITION: 12q12-14
FEATURE:
NAME/KEY: CDS
LOCATION: 312..1784
US-08-390-479A-2

Query Match 100.0%; Score 20;
Best Local Similarity 90.0%; Pred. No. 0.24;
Matches 18; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 ugacacctgtctcacac 20
DB 694 TGACACCTGTCTCACAC 675

RESULT 11
US-08-557-393-2/c
Sequence 2, Application US/08557393
Patent No. 5702903
GENERAL INFORMATION:
APPLICANT: BURRELL, MARILEE
APPLICANT: HILL, DAVID E.
APPLICANT: KINZLER, KENNETH W.
APPLICANT: VOGELSTEIN, BERT
TITLE OF INVENTION: AMPLIFICATION OF HUMAN
NUMBER OF SEQUENCES: 5
CORRESPONDENCE ADDRESS:
ADDRESSEE: BANNER, BIRCH, MCKIE AND BECKETT
STREET: 1001 G STREET, N.W.
CITY: WASHINGTON
STATE: D.C.
COUNTRY: USA
ZIP: 20001
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/557,393
FILING DATE: 13-NOV-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/245,500
FILING DATE: 18-MAY-1994
ATTORNEY/AGENT INFORMATION:
NAME: KAGAN, SARAH A.
REGISTRATION NUMBER: 32,141
REFERENCE/DOCKET NUMBER: 01107.42798
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-508-9100
TELEFAX: 202-508-9299
TELEX: 197430 BBMB UT
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 2372 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
ORIGINAL SOURCE:
ORGANISM: Homo sapiens
CELL LINE: CaCo-2
POSITION IN GENOME:
MAP POSITION: 12q12-14
FEATURE:
NAME/KEY: CDS
LOCATION: 312..1784
US-08-557-393-2

Query Match 100.0%; Score 20; DB 1; Length 2372;
Best Local Similarity 90.0%; Pred. No. 0.24;
Matches 18; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 ugacacctgtctcacacac 20
DB 694 TGACACTGTCTCCTCCTC 675

RESULT 12
US-08-390-516C-2/C
Sequence 2, Application US/08390516C
Patent No. 5708136
GENERAL INFORMATION:
APPLICANT: BURRELL, MARILEE
APPLICANT: HILL, DAVID E.
APPLICANT: KINZLER, KENNETH W.
APPLICANT: VOGELSTEIN, BERT
TITLE OF INVENTION: AMPLIFICATION OF HUMAN MDM2 GENE IN
TITLE OF INVENTION: HUMAN TUMORS
NUMBER OF SEQUENCES: 9
CORRESPONDENCE ADDRESS:
ADDRESSEE: BANNER, BIRCH, MCKIE AND BECKETT
STREET: 1001 G STREET, N.W.
CITY: WASHINGTON
STATE: D.C.
COUNTRY: USA
ZIP: 20001
COMPUTER READABLE FORM:
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/390,516C

FILING DATE: 07-APR-1993
CLASSIFICATION: 530
ATTORNEY/AGENT INFORMATION:
NAME: KAGAN, SARAH A.
REGISTRATION NUMBER: 32,141
REFERENCE/DOCKET NUMBER: 01107.42798
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-508-9100
TELEFAX: 202-508-9299
TELEX: 197430 BBMB UT
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 2372 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
ORIGINAL SOURCE:
ORGANISM: Homo sapiens
CELL LINE: CaCo-2
POSITION IN GENOME:
MAP POSITION: 12q12-14
FEATURE:
NAME/KEY: CDS
LOCATION: 312..1784
US-08-390-516C-2

Query Match 100.0%; Score 20;
Best Local Similarity 90.0%; Pred. No. 0.24;
Matches 18; Conservative 2; Mismatches 0;

QY 1 ugacacctgtctcacacac 20
DB 694 TGACACTGTCTCCTCCTC 675

RESULT 13
US-08-390-517A-2/C
Sequence 2, Application US/08390517A
Patent No. 5756338
GENERAL INFORMATION:
APPLICANT: BURRELL, MARILEE
APPLICANT: HILL, DAVID E.
APPLICANT: KINZLER, KENNETH W.
APPLICANT: VOGELSTEIN, BERT
TITLE OF INVENTION: AMPLIFICATION OF HUMAN TUMORS
TITLE OF INVENTION: HUMAN TUMORS
NUMBER OF SEQUENCES: 5
CORRESPONDENCE ADDRESS:
ADDRESSEE: BANNER, BIRCH, MCKIE AND BECKETT
STREET: 1001 G STREET, N.W.
CITY: WASHINGTON
STATE: D.C.
COUNTRY: USA
ZIP: 20001
COMPUTER READABLE FORM:
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/390,517A
FILING DATE: 07-APR-1993
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: KAGAN, SARAH A.
REGISTRATION NUMBER: 32,141
REFERENCE/DOCKET NUMBER: 01107.42798
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-508-9100

TELEFAX: 202-508-9299
TELEX: 197430 BBMB UT
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 2372 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: CDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
ORIGINAL SOURCE:
ORGANISM: Homo sapiens
CELL LINE: Caco-2
POSITION IN GENOME:
MAP POSITION: 12q12-14
FEATURE:
NAME/KEY: CDS
LOCATION: 312..1784
US-08-390-517A-2

Query Match 100.0%; Score 20; DB 1; Length 2372;
Best Local Similarity 90.0%; Pred. No. 0.24;
Matches 18; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

OY 1 ugacacctgtctcacac 20
Db 694 TGACACCTGTCTCACAC 675

RESULT 14
US-08-390-515A-2/c
Sequence 2, Application US/08390515A
Patent No. 5756455
GENERAL INFORMATION:
APPLICANT: BURRELL, MARILEE
APPLICANT: HILL, DAVID E.
APPLICANT: KINZLER, KENNETH W.
APPLICANT: VOGELSTEIN, BERT
TITLE OF INVENTION: AMPLIFICATION OF HUMAN MDX2 GENE IN
NUMBER OF SEQUENCES: 9
CORRESPONDENCE ADDRESS:
ADDRESSEE: BANNER, BIRCH, MCKIE AND BECKETT
STREET: 1001 G STREET, N.W.
CITY: WASHINGTON
STATE: D.C.
COUNTRY: USA
ZIP: 20001
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/390,515A
FILING DATE: 07-APR-1993
CLASSIFICATION: 514
ATTORNEY/AGENT INFORMATION:
NAME: KAGAN, SARAH A.
REGISTRATION NUMBER: 32,141
REFERENCE/DOCKET NUMBER: 01107,42798
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-508-9100
TELEFAX: 202-508-9299
TELEX: 197430 BBMB UT
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 2372 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear

MOLECULE TYPE: CDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
ORIGINAL SOURCE:
ORGANISM: Homo sapiens
CELL LINE: Caco-2
POSITION IN GENOME:
MAP POSITION: 12q12-14
FEATURE:
NAME/KEY: CDS
LOCATION: 312..1784
US-08-390-515A-2

Query Match 100.0%; Score 20; DB 1; Length 2372;
Best Local Similarity 90.0%; Pred. No. 0.24;
Matches 18; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

OY 1 ugacacctgtctcacac 20
Db 694 TGACACCTGTCTCACAC 675

RESULT 15
US-08-801-718-2/c
Sequence 2, Application US/08801718
Patent No. 5858976
GENERAL INFORMATION:
APPLICANT: BURRELL, MARILEE
APPLICANT: HILL, DAVID E.
APPLICANT: KINZLER, KENNETH W.
APPLICANT: VOGELSTEIN, BERT
TITLE OF INVENTION: AMPLIFICATION OF HUMAN
NUMBER OF SEQUENCES: 9
CORRESPONDENCE ADDRESS:
ADDRESSEE: BANNER, BIRCH, MCKIE AND BECKETT
STREET: 1001 G STREET, N.W.
CITY: WASHINGTON
STATE: D.C.
COUNTRY: USA
ZIP: 20001
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/801,718
FILING DATE: 14-FEB-1997
CLASSIFICATION: 514
ATTORNEY/AGENT INFORMATION:
NAME: KAGAN, SARAH A.
REGISTRATION NUMBER: 32,141
REFERENCE/DOCKET NUMBER: 01107,42798
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-508-9100
TELEFAX: 202-508-9299
TELEX: 197430 BBMB UT
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 2372 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: CDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
ORIGINAL SOURCE:
ORGANISM: Homo sapiens

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CELL LINE: Caco-2
POSITION IN GENOME:
MAP POSITION: 12q12-14
FEATURE:
NAME/KEY: CDS
LOCATION: 312..1784
US-08-801-718-2
    
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Query Match      100.0%; Score 20; DB 2; Length 2372;
Best Local Similarity 90.0%; Pred. No. 0.24;
Matches 18; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
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Db 694 TGACACCTGTCTCACCAC 675
    
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 Job time: 4250 sec

GenCore version 4.5
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OM nucleic - nucleic search, using sw model

Run on: May 31, 2002, 22:09:08 ; Search time 211.91 Seconds

(without alignments)
162.042 Million cell updates/sec

Title: US-09-708-786-1

Perfect score: 20

Sequence: 1 ugacacctgtctcacacac 20

Scoring table: IDENTITY_NUC

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Searched: 1736436 seqs, 858457221 residues

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Post-processing: Minimum Match 0%

Maximum Match 100%

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24: /SIDSL/gcgdata/geneseq/geneseqn-emb1/NA2002.DAT:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match Length	DB ID	Description
1	20	100.0	20	AAK35128
2	20	100.0	20	AAK35129
3	20	100.0	20	AAK35130
4	20	100.0	20	AAK35131
5	20	100.0	20	AAK35132
6	20	100.0	20	AAK35133
7	20	100.0	20	AAK35134
8	20	100.0	20	AAK35135
9	20	100.0	20	AAK35136

c 10	20	100.0	28	21	AAK35128
c 11	20	100.0	40	21	AAK35129
c 12	20	100.0	73	21	AAK35130
c 13	20	100.0	652	21	AAK35131
c 14	20	100.0	681	16	AAK35132
c 15	20	100.0	681	16	AAK35133
c 16	20	100.0	852	16	AAK35134
c 17	20	100.0	852	16	AAK35135
c 18	20	100.0	1302	16	AAK35136
c 19	20	100.0	1302	16	AAK35137
c 20	20	100.0	1476	22	AAK35138
c 21	20	100.0	1476	22	AAK35139
c 22	20	100.0	2372	14	AAK35140
c 23	20	100.0	2372	16	AAK35141
c 24	20	100.0	2372	17	AAK35142
c 25	20	100.0	2372	18	AAK35143
c 26	20	100.0	2372	18	AAK35144
c 27	20	100.0	2372	19	AAK35145
c 28	20	100.0	2372	19	AAK35146
c 29	20	100.0	2372	19	AAK35147
c 30	20	100.0	2372	19	AAK35148
c 31	20	100.0	2372	19	AAK35149
c 32	20	100.0	2372	20	AAK35150
c 33	20	100.0	2372	20	AAK35151
c 34	20	100.0	2372	21	AAK35152
c 35	20	100.0	2372	21	AAK35153
c 36	20	100.0	2372	22	AAK35154
c 37	20	100.0	2372	22	AAK35155
c 38	20	100.0	2372	23	AAK35156
c 39	20	100.0	3190	22	AAK35157
c 40	19	95.0	20	21	AAK35158
c 41	19	95.0	20	21	AAK35159
c 42	18	90.0	20	21	AAK35160
c 43	17	85.0	20	21	AAK35161
c 44	17	85.0	843	21	AAK35162
c 45	16.8	84.0	20	20	AAK35117

ALIGNMENT:

RESULT 1
ID AAK35128 standard; DNA, 20 BP.
AC AAK35128;
DT 01-JUL-1999 (first entry)
DE Antisense oligonucleotide AS5-2 directed
KW MDM2 protein; antisense oligonucleotide; c
KW inhibition; tumour growth; DNA-damaging ag
OS Synthetic.
XX WO9910486-A2.
XX 04-MAR-1999.
XX 18-AUG-1998; 98WO-US17147.
XX 06-MAY-1998; 98US-0073567.
XX 22-AUG-1997; 97US-0916384.
XX (HYBR-) HYBRIDON INC.
XX Agrawal S, Chen J, Zhang R;
XX WPI: 1999-254219/21.
XX New MDM2-specific antisense oligonucleotide
XX

PRIMER AS5
1/02

Pseudocyclic oligonucleotide: functionally active segment:

XX nucleic acid amplification; human MDM2 gene; PCO; ss.
XX Synthetic.
OS Homo sapiens.
XX Key Location/Qualifiers
FT modified_base 20
FT /tag- a
FT /note- "Linked via a 3'-3' linkage to 5'-GTGTCA-3'"
XX MO200058330-A2.
XX 05-OCT-2000.
XX 31-MAR-2000; 2000MO-US08826.
XX 31-MAR-1999; 99US-0127138.
XX 05-JUN-2000; 2000US-0174642.
XX (HYBR-) HYBRIDON INC.
XX Agrawal S, Kandimala ER;
XX WPI: 2000-672550/65.
XX New pseudo cyclic oligonucleobases comprising a functional segment, a
XX protective segment and a linker segment, useful e.g. in diagnostics
XX
XX Example 9; Page 25; 58pp; English.
XX The invention relates to novel pseudocyclic oligonucleotides (PCOs)
XX comprising a functional segment, a protective segment and a linker
XX segment. The protective segment is complementary to a portion of
XX the functional segment, and is linked to the functional segment either
XX by a direct 3'-3' or 5'-5' linkage, a linker oligonucleotide segment or
XX a chemical moiety. PCOs can be used for the same purposes as their
XX constituent functional segment oligonucleotide, for example, as probes
XX or antisense oligonucleotides. PCOs can be used in solution phase
XX or in solid phase, e.g., attached to a biochip or magnetic beads for
XX high-throughput nucleic acid screening and solid phase PCR.
XX PCOs are particularly useful for cleaving an mRNA molecule by
XX contacting the mRNA with a PCO in the presence of an RNase H under
XX conditions that permit hybridisation of the functional segment to
XX at least a portion of the RNase H and subsequent cleavage of the mRNA,
XX where the functional segment of the oligonucleotide is complementary to
XX at least a portion of the mRNA. PCOs are also useful for detecting a
XX target oligonucleotide, and for amplifying a target nucleic acid,
XX using a PCO as a primer and/or as a primer/probe, where the functional
XX sequence is complementary to the target nucleic acid to be amplified.
XX The oligonucleotides can be used therapeutically to inhibit gene
XX expression, e.g., to inhibit endogenous oncogenes in the treatment
XX of cancer. PCOs are more stable than conventional antisense
XX oligonucleotides because of the presence of 3'-3' and 5'-5' linkages
XX and the formation of intramolecular pseudo-cyclic structures. In
XX studies in mice, PCOs have higher in vivo stability than
XX oligodeoxynucleotide phosphorothioates, while having similar
XX pharmacokinetic and tissue distribution profiles. The present
XX sequence represents a pseudocyclic oligonucleotide targeted to the
XX human MDM2 gene used in an exemplification of the invention.
XX
XX Sequence 20 BP; 4 A; 8 C; 2 G; 6 T; 0 other;
SQ

Query Match 100.0%; Score 20; DB 21; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.1;
Matches 18; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
Oy 1 ugacacctgttcacac 20
Db 1 tgcacacctgttcacac 20

RESULT 5

AAA97655
ID AAA97655 standard; DNA; 20 BP.
XX
XX AAA97655;
XX
XX 15-FEB-2001 (first entry)
XX
XX Human MDM2-targeted pseudocyclic oligo
XX
XX Pseudocyclic oligonucleotide: functional
XX nucleic acid detection; mRNA cleavage; and
XX nucleic acid amplification; human MDM2
XX
XX Synthetic.
XX Homo sapiens.
XX
XX Key Location/Qualifiers
FT modified_base 20
FT /tag- a
FT /note- "Linked via a 3'-3' linkage to 5'-GTGTCA-3'"
XX MO200058330-A2.
XX 05-OCT-2000.
XX 31-MAR-2000; 2000MO-US08826.
XX 31-MAR-1999; 99US-0127138.
XX 05-JUN-2000; 2000US-0174642.
XX (HYBR-) HYBRIDON INC.
XX Agrawal S, Kandimala ER;
XX WPI: 2000-672550/65.
XX New pseudo cyclic oligonucleobases comprising a functional segment, a
XX protective segment and a linker segment, useful e.g. in diagnostics
XX
XX Example 9; Page 25; 58pp; English.
XX The invention relates to novel pseudocyclic oligonucleotides (PCOs)
XX comprising a functional segment, a protective segment and a linker
XX segment. The protective segment is complementary to a portion of
XX the functional segment, and is linked to the functional segment either
XX by a direct 3'-3' or 5'-5' linkage, a linker oligonucleotide segment or
XX a chemical moiety. PCOs can be used for the same purposes as their
XX constituent functional segment oligonucleotide, for example, as probes
XX or antisense oligonucleotides. PCOs can be used in solution phase
XX or in solid phase, e.g., attached to a biochip or magnetic beads for
XX high-throughput nucleic acid screening and solid phase PCR.
XX PCOs are particularly useful for cleaving an mRNA molecule by
XX contacting the mRNA with a PCO in the presence of an RNase H under
XX conditions that permit hybridisation of the functional segment to
XX at least a portion of the RNase H and subsequent cleavage of the mRNA,
XX where the functional segment of the oligonucleotide is complementary to
XX at least a portion of the mRNA. PCOs are also useful for detecting a
XX target oligonucleotide, and for amplifying a target nucleic acid,
XX using a PCO as a primer and/or as a primer/probe, where the functional
XX sequence is complementary to the target nucleic acid to be amplified.
XX The oligonucleotides can be used therapeutically to inhibit gene
XX expression, e.g., to inhibit endogenous oncogenes in the treatment
XX of cancer. PCOs are more stable than conventional antisense
XX oligonucleotides because of the presence of 3'-3' and 5'-5' linkages
XX and the formation of intramolecular pseudo-cyclic structures. In
XX studies in mice, PCOs have higher in vivo stability than
XX oligodeoxynucleotide phosphorothioates, while having similar
XX pharmacokinetic and tissue distribution profiles. The present
XX sequence represents a pseudocyclic oligonucleotide targeted to the
XX human MDM2 gene used in an exemplification of the invention.
XX
XX Sequence 20 BP; 4 A; 8 C; 2 G; 6 T; 0 other;
SQ

Query Match 100.0%; Score 20; DB 21; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.1;
Matches 18; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
QY 1 ugacacctgtctcacac 20
:|||||
DB 1 tgacacctgtctcacac 20

RESULT 6

AAA97656

ID AAA97656 standard; DNA; 20 BP.

AC AAA97656;

DT 15-FEB-2001 (first entry)

DE Human MDM2-targeted pseudocyclic oligonucleotide 14.

KW Pseudocyclic oligonucleotide; functional segment; protective segment;
KW nucleic acid detection; mRNA cleavage; antisense therapy;
KW nucleic acid amplification; human MDM2 gene; PCO; ss.

OS Synthetic.
OS Homo sapiens.

FT Key Location/Qualifiers
FT modified_base 1

/*tag= a /note= "Linked via a 5'-5' linkage to 5'-GTGAGT-3'"

WO200058330-A2.

05-OCT-2000. *NOT AKI*

31-MAR-2000; 2000WO-US08826.

31-MAR-1999; 99US-0127138.

05-JAN-2000; 2000US-0174642.

(HYBR-) HYBRIDON INC.

Agrawal S, Kandimala ER;

WPI; 2000-672550/65.

New pseudo cyclic oligonucleobases comprising a functional segment, a protective segment and a linker segment, useful e.g. in diagnostics -
Example 9; Page 25; 58pp; English.

The invention relates to novel pseudocyclic oligonucleotides (PCOs) comprising a functional segment, a protective segment and a linker segment. The protective segment is complementary to a portion of the functional segment, and is linked to the functional segment either by a direct 3'-3' or 5'-5' linkage, a linker oligonucleotide segment or a chemical moiety. PCOs can be used for the same purposes as their constituent functional segment oligonucleotide, for example, as probes or antisense oligonucleotides. PCOs can be used in solution phase or in solid phase, e.g., attached to a bioclip or magnetic beads for high-throughput nucleic acid screening and solid phase PCR. PCOs are particularly useful for cleaving an mRNA molecule by contacting the mRNA with a PCO in the presence of an RNase H under conditions that permit hybridisation of the functional segment to at least a portion of the RNase H and subsequent cleavage of the mRNA, where the functional segment of the oligonucleotide is complementary to at least a portion of the mRNA. PCOs are also useful for detecting a target oligonucleotide, and for amplifying a target nucleic acid, using a PCO as a primer and/or as a primer/probe, where the functional sequence is complementary to the target nucleic acid to be amplified. The oligonucleotides can be used therapeutically to inhibit gene expression, e.g., to inhibit endogenous oncogenes in the treatment

of cancer. PCOs are more stable than conventional oligonucleotides because of the presence of 5'-5' linkages and the formation of intramolecular pseudocyclic structures. In studies in mice, PCOs have higher in vivo stability than oligodeoxynucleotide phosphorothioates. With a similar pharmacokinetic and tissue distribution profile, the present sequence represents a pseudocyclic oligonucleotide targeted to the human MDM2 gene used in an exemplification.

SQ Sequence 20 BP; 4 A; 8 C; 2 G; 6 T; 0 other

Query Match 100.0%; Score 20;
Best Local Similarity 90.0%; Pred. No. 1.1;
Matches 18; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 ugacacctgtctcacac 20
:|||||
DB 1 tgacacctgtctcacac 20

RESULT 7

AAA97657

ID AAA97657 standard; DNA; 20 BP.

AC AAA97657;

DT 15-FEB-2001 (first entry)

DE Human MDM2-targeted pseudocyclic oligo

KW Pseudocyclic oligonucleotide; functional
KW nucleic acid detection; mRNA cleavage; antisense therapy;
KW nucleic acid amplification; human MDM2

OS Synthetic.
OS Homo sapiens.

FT Key Location/Qualifiers
FT modified_base 1

/*tag= a /note= "Linked via a 5'-5' linkage to 5'-GTGAGT-3'"

WO200058330-A2.

05-OCT-2000.

31-MAR-2000; 2000WO-US08826.

31-MAR-1999; 99US-0127138.

05-JAN-2000; 2000US-0174642.

(HYBR-) HYBRIDON INC.

Agrawal S, Kandimala ER;

WPI; 2000-672550/65.

New pseudo cyclic oligonucleobases comprising a functional segment, a protective segment and a linker segment, useful e.g. in diagnostics -
Example 9; Page 25; 58pp; English.

The invention relates to novel pseudocyclic oligonucleotides (PCOs) comprising a functional segment, a protective segment and a linker segment. The protective segment is complementary to a portion of the functional segment, and is linked to the functional segment either by a direct 3'-3' or 5'-5' linkage, a linker oligonucleotide segment or a chemical moiety. PCOs can be used for the same purposes as their constituent functional segment oligonucleotide, for example, as probes or antisense oligonucleotides. PCOs can be used in solution phase or in solid phase, e.g., attached to a bioclip or magnetic beads for high-throughput nucleic acid screening and solid phase PCR.

CC PCOs are particularly useful for cleaving an mRNA molecule by
CC contacting the mRNA with a PCO in the presence of an RNase H under
CC conditions that permit hybridisation of the functional segment to
CC at least a portion of the RNase H and subsequent cleavage of the mRNA,
CC where the functional segment of the oligonucleotide is complementary to
CC at least a portion of the mRNA. PCOs are also useful for detecting a
CC target oligonucleotide, and for amplifying a target nucleic acid,
CC using a PCO as a primer and/or as a primer/probe, where the functional
CC sequence is complementary to the target nucleic acid to be amplified.
CC The oligonucleotides can be used therapeutically to inhibit gene
CC expression, e.g., to inhibit endogenous oncogenes in the treatment
CC of cancer. PCOs are more stable than conventional antisense
CC oligonucleotides because of the presence of 3'-3' and 5'-5' linkages
CC and the formation of intramolecular pseudo-cyclic structures. In
CC studies in mice, PCOs have higher *in vivo* stability than
CC oligodeoxynucleotide phosphorothioates, while having similar
CC pharmacokinetic and tissue distribution profiles. The present
CC sequence represents a pseudocyclic oligonucleotide targeted to the
CC human MDM2 gene used in an exemplification of the invention.

SO Sequence 20 BP; 4 A; 8 C; 2 G; 6 T; 0 other;

Query Match 100.0%; Score 20; DB 21; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.1;
Matches 18; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

OY 1 ugacacctgtctcacac 20
Db 1 tgacacctgtctcacac 20

RESULT 8

AAH97665
ID AAH97665 standard; DNA; 20 BP.

AC AAH97665;

DT 15-FEB-2001 (first entry)

DE Human MDM2 PCR primer 2.

XX Pseudocyclic oligonucleotide; functional segment; protective segment;
KW nucleic acid detection; mRNA cleavage; antisense therapy; PCO;
XX nucleic acid amplification; human MDM2 gene; PCR primer; ss.

OS Homo sapiens.

XX MO200058330-A2.

XX 05-OCT-2000.

XX 31-MAR-2000; 2000WO-US08826.

XX 31-MAR-1999; 99US-0127138.

XX 05-JAN-2000; 2000US-0174642.

XX (HYBR-) HYBRIDON INC.

XX Agrawal S, Kandimala ER;

XX WPI; 2000-672550/65.

XX New pseudo cyclic oligonucleobases comprising a functional segment, a
FT protective segment and a linker segment, useful e.g. in diagnostics
XX
XX Example 9; Fig 11B; 58pp; English.

CC The invention relates to novel pseudocyclic oligonucleotides (PCOs)
CC comprising a functional segment, a protective segment and a linker
CC segment. The protective segment is complementary to a portion of
CC the functional segment, and is linked to the functional segment either
CC by a direct 3'-3' or 5'-5' linkage, a linker oligonucleotide segment or

CC a chemical moiety. PCOs can be used for
CC constituent functional segment oligonucleotide
CC or antisense oligonucleotides. PCOs can be
CC or in solid phase, e.g., attached to a bead,
CC high-throughput nucleic acid screening and
CC PCOs are particularly useful for cleaving
CC contacting the mRNA with a PCO in the presence of an RNase H under
CC conditions that permit hybridisation of the functional segment to
CC at least a portion of the RNase H and subsequent cleavage of the mRNA,
CC where the functional segment of the oligonucleotide is complementary to
CC at least a portion of the mRNA. PCOs are also useful for detecting a
CC target oligonucleotide, and for amplifying a target nucleic acid,
CC using a PCO as a primer and/or as a primer/probe, where the functional
CC sequence is complementary to the target nucleic acid to be amplified.
CC The oligonucleotides can be used therapeutically to inhibit gene
CC expression, e.g., to inhibit endogenous oncogenes in the treatment
CC of cancer. PCOs are more stable than conventional antisense
CC oligonucleotides because of the presence of 3'-3' and 5'-5' linkages
CC and the formation of intramolecular pseudo-cyclic structures. In
CC studies in mice, PCOs have higher *in vivo* stability than
CC oligodeoxynucleotide phosphorothioates, while having similar
CC pharmacokinetic and tissue distribution profiles. The present
CC sequence represents a human MDM2 PCR primer
CC of the invention.

SO Sequence 20 BP; 4 A; 8 C; 2 G; 6 T; 0 other;

Query Match 100.0%; Score 20; DB 21; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.1;
Matches 18; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

OY 1 ugacacctgtctcacac 20
Db 1 tgacacctgtctcacac 20

RESULT 9

AAH21705
ID AAH21705 standard; DNA; 20 BP.

AC AAH21705;

DT 13-AUG-2001 (first entry)

DE MDM-2 phosphorothioate oligonucleotide.

XX Phosphorothioate; MDM-2; HIV-1; gag; puv;

XX Panc 1 tumour; colon cancer; prodrg; poly

XX Homo sapiens.

XX Key

XX modified_base

XX misc_RNA

XX misc_RNA

XX misc_RNA

XX misc_RNA

XX misc_RNA

XX misc_RNA

XX misc_RNA

XX misc_RNA

XX misc_RNA

XX misc_RNA

XX misc_RNA

XX misc_RNA

DR WPI; 2000-672550/65.
XX New pseudo cyclic oligonucleobases comprising a functional segment, a
PT protective segment and a linker segment, useful e.g. in diagnostics
XX
XX Example 9; Page 26; 58pp: English.

XX The invention relates to novel pseudocyclic oligonucleotides (PCOs)
CC comprising a functional segment, a protective segment and a linker
CC segment. The protective segment is complementary to a portion of
CC the functional segment, and is linked to the functional segment either
CC by a direct 3'-3' or 5'-5' linkage, a linker oligonucleotide segment or
CC a chemical moiety. PCOs can be used for the same purposes as their
CC or constituent functional segment oligonucleotide, for example, as probes
CC or antisense oligonucleotides. PCOs can be used in solution phase
CC or in solid phase, e.g., attached to a biochip or magnetic beads for
CC high-throughput nucleic acid screening and solid phase PCR.
CC PCOs are particularly useful for cleaving an mRNA molecule by
CC contacting the mRNA with a PCO in the presence of an RNase H under
CC conditions that permit hybridisation of the functional segment to
CC at least a portion of the RNase H and subsequent cleavage of the mRNA,
CC where the functional segment of the oligonucleotide is complementary to
CC at least a portion of the mRNA. PCOs are also useful for detecting a
CC target oligonucleotide, and for amplifying a target nucleic acid,
CC using a PCO as a primer and/or as a primer/probe, where the functional
CC sequence is complementary to the target nucleic acid to be amplified.
CC The oligonucleotides can be used therapeutically to inhibit gene
CC expression, e.g., to inhibit endogenous oncogenes in the treatment
CC of cancer. PCOs are more stable than conventional antisense
CC oligonucleotides because of the presence of 3'-3' and 5'-5' linkages
CC and the formation of intramolecular pseudo-cyclic structures. In
CC studies in mice, PCOs have higher in vivo stability than
CC oligodeoxynucleotide phosphorothioates, while having similar
CC pharmacokinetic and tissue distribution profiles. The present
CC sequence represents a human MDM2 gene-derived oligonucleotide used in
CC an exemplification of the invention.
XX
XX Sequence 40 BP; 10 A; 9 C; 12 G; 9 T; 0 other;

Query Match 100.0%; Score 20; DB 21; Length 40;
Best Local Similarity 90.0%; Pred. No. 1.2;
Matches 18; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ugacactgtctcacacac 20
Db 36 TGACACCTGTCCTCCTCAC 17
:|||||

RESULT 12
AAK35141
ID AAK35141 standard; DNA; 73 BP.

XX AAK35141;
XX
XX 01-JUL-1999 (first entry)

XX Nucleotide sequence SEQ ID 49.

XX MDM2 protein; antisense oligonucleotide; activate; tumour suppressor;
KM inhibition; tumour growth; DNA-damaging agent; camptothecin;
KM DNA/RNA hybrid; ss.

XX Synthetic.

XX WO9910486-A2.

XX 04-MAR-1999.

XX 18-AUG-1998; 98WO-US17147.

XX 06-MAY-1998; 98US-0073567.

XX 22-AUG-1997; 97US-0916384.

XX (HYBR-) HYBRIDON INC.
XX
XX Agrawal S, Chen J, Zhang R;
XX
XX WPI; 1999-254219/21.

XX New MDM2-specific antisense oligonucleotide
PT disclosure; Page 57; 59pp: English.

XX The specification describes antisense
CC oligonucleotides that inhibit MDM2 protein expression. The
CC oligonucleotides can be used to activate a tumour suppressor
CC or to inhibit tumour growth in a human,
CC particularly in conjunction with a DNA topoisomerase II
CC inhibitor, camptothecin. The present sequence appears
XX
XX Sequence 73 BP; 17 A; 23 C; 11 G; 22 T; 0

Query Match 100.0%; Score 20;
Best Local Similarity 90.0%; Pred. No. 1.2;
Matches 18; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ugacactgtctcacacac 20
Db 44 tgacactgtctcacacac 63
:|||||

RESULT 13
AAK75042/C
ID AAK75042 standard; cDNA; 652 BP.

XX AAK75042;
XX
XX 02-JAN-2001 (first entry)

XX cDNA encoding a human MDM2-binding MDM2

XX Human; MDM2 interacting polypeptide; MDM2
KM cell differentiation; cancer; sarcoma; leukemia;
KM breast cancer; astrocytoma; leukemia; liver
KM gene therapy; ss.

XX Homo sapiens.

XX Key Location/Qualifiers

XX CDS 1..652

XX /tag= a

XX /transl_except= (pos: 172

XX /note= "partial sequence"

XX WO200050590-A1.

XX 31-AUG-2000.

XX 23-FEB-2000; 2000WO-US04582.

XX 23-FEB-1999; 99US-0121192.

XX 03-MAR-1999; 99US-0122643.

XX 22-FEB-2000; 2000US-0122643.

XX (CURA-) CURAGEN CORP.

XX Nandabalan K, Yang M, Schulz VP;

XX WPI; 2000-558398/51.

XX P-PSDB; AAB08846.

XX Novel MDM2 interacting protein useful for
PT disorders involving aberrant levels of MDM2
PT proteins, comprises a specific amino acid sequence

XX PS Disclosure; Fig 2A: 78bp; English.
XX CC The present sequence encodes a fragment of a human MDM2 polypeptide,
XX CC which binds to a human MDM2 interacting polypeptide (MDMIP). The
XX CC protein fragment was used as bait in a yeast two hybrid system to
XX CC identify MDMIP. The MDMIP polypeptide is useful for detecting and
XX CC removing MDM2 polypeptides in a biological sample by forming MDM2-MDMIP
XX CC complexes. MDMIP and MDM2 are useful to identify compounds or other
XX CC agents which modulate the activity of MDM2 and/or MDMIP-mediated
XX CC processes. Agents that modulate the function of MDMIP/MDM2 complexes
XX CC are useful for treating and preventing a disease or disorder involving
XX CC aberrant levels of MDM2 or MDMIP. MDMIP is also useful for treating
XX CC diseases caused by aberrant levels of expression of MDM2 genes, such as
XX CC disorders of cell cycle progression, cell differentiation, and
XX CC transcriptional control, including cancers such as human sarcoma,
XX CC glioma, squamous cell carcinoma, breast cancer, astrocytoma, leukemia
XX CC and lymphoma, and tumorigenesis. MDMIP and MDM2 nucleic acids are useful
XX CC in gene therapy.
SQ Sequence 652 BP: 212 A; 116 C; 145 G; 179 T; 0 other;

Query Match 100.0%; Score 20; DB 21; Length 652;
Best Local Similarity 90.0%; Pred. No. 1.7;
Matches 18; Conservative 2; Mismatches 0; Gaps 0;

OY 1 ugacacctgtctcacuac 20
DB 383 TGACACCTGTCTCCTCAC 364
:|||||

RESULT 14
AA087262/c
ID AA087262 standard; DNA; 681 BP.
XX AC
XX AC AA087262;
XX DT 25-JAN-1996 (first entry)
XX DE Human double minute gene 2 (hdm-2) fragment 2.
XX DE Human double minute gene 2; hdm-2; antibody binding region;
XX KW antigen; cancer; sarcoma; rhabdomyosarcoma; diagnosis; ss.
XX OS Homo sapiens.
XX OS
XX OS
XX FH Key Location/Qualifiers
XX FH CDS 1..681
XX FT /*tag= a
XX FT /label= Fragment_2
XX FT /note= "encodes amino acids 58-284 of hdm-2,
XX FT 1.e. this region does not contain the
XX FT start or stop codons"
XX PN DE4345249-A1.
XX PD 24-MAY-1995.
XX PD
XX PD 19-NOV-1993; 93DE-4339533.
XX PF 19-NOV-1993; 93DE-4339533.
XX PR 19-NOV-1993; 93DE-4339533.
XX PR 19-NOV-1993; 93DE-4345249.
XX PA (DEKR-) DEUT KREBSFORSCHUNGSZENTRUM.
XX PA
XX PI Frey M, Klein R, Martens R, Zentgraf H;
XX DR WPI: 1995-195167/26.
XX DR P-PSDB: AAR75398.
XX DR
XX PT New hdm-2 fragments contg. antibody binding region - used to detect
XX PT specific antibodies for diagnosis of cancers, also new DNA sequences

PT encoding them
XX PS Claim 4; Fig 2; 11pp; German.
XX CC DNA fragments coding for amino acids 1-284 of the
XX CC hdm-2 (human double minute 2) gene product
XX CC protein fragments contain binding regions
XX CC antibodies and are useful for identifying
XX CC presence of anti-hdm-2 antibodies is diagnosis
XX CC cancer, e.g. rhabdomyosarcoma.
SQ Sequence 681 BP; 220 A; 109 C; 167 G; 185 T

Query Match 100.0%; Score 20; DB 21; Length 681;
Best Local Similarity 90.0%; Pred. No. 1.7;
Matches 18; Conservative 2; Mismatches 0; Gaps 0;

OY 1 ugacacctgtctcacuac 20
DB 212 TGACACCTGTCTCCTCAC 193
:|||||

RESULT 15
AA092516/c
ID AA092516 standard; DNA; 681 BP.
XX AC
XX AC AA092516;
XX DT 02-FEB-1996 (first entry)
XX DE Human double minute gene 2 (hdm-2) fragment
XX DE Human double minute gene 2; hdm-2; antibody
XX KW antigen; cancer; sarcoma; rhabdomyosarcoma;
XX KW
XX OS Homo sapiens.
XX OS
XX OS
XX FH Key Location/Qualifiers
XX FH CDS 1..681
XX FT /*tag= a
XX FT /label= Fragment_2
XX FT /note= "encodes amino acids 1-284 of hdm-2,
XX FT 1.e. this region does not contain the
XX FT start or stop codons"
XX PN DE4339533-A1.
XX PN
XX PN 14-JUN-1995.
XX PD 19-NOV-1993; 93DE-4339533.
XX PF 19-NOV-1993; 93DE-4339533.
XX PR 19-NOV-1993; 93DE-4339533.
XX PA (DEKR-) DEUT KREBSFORSCHUNGSZENTRUM.
XX PA
XX PI Frey M, Klein R, Martens R, Zentgraf
XX DR WPI: 1995-216248/29.
XX DR P-PSDB: AAR75495.
XX DR
XX PT Detection of human double minute gene 2 (hdm-2) fragments - by
XX PT incubation with new hdm-2 or antibody-binding
XX PT useful in the detection of specific cancers
XX PS Claim 13; Fig 2; 12pp; German.
XX PS
XX CC DNA fragments coding for amino acids 1-284 of the
XX CC hdm-2 (human double minute 2) gene product
XX CC protein fragments contain binding regions for
XX CC antibodies and are useful for identifying
XX CC claimed immunoassay method. The presence
XX CC diagnostic of certain forms of cancer, e.g. sarcoma.

XX Sequence 681 BP; 220 A; 109 C; 167 G; 185 T; 0 other;

Query Match 100.0%; Score 20; DB 16; Length 681;
Best Local Similarity 90.0%; Pred. No. 1.7;
Matches 18; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

OY 1 ugacacctgtctcacuac 20
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Db 212 TGACACCTGTTCACAC 193

Search completed: May 31, 2002, 22:48:50
Job time: 2382 sec

